

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-026307

(43)Date of publication of application : 28.01.1997

(51)Int.Cl.

G01B 11/00
 G06T 7/00
 G06T 7/60
 H01L 21/68
 // H01L 21/60

(21)Application number : 07-175798

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(22)Date of filing : 12.07.1995

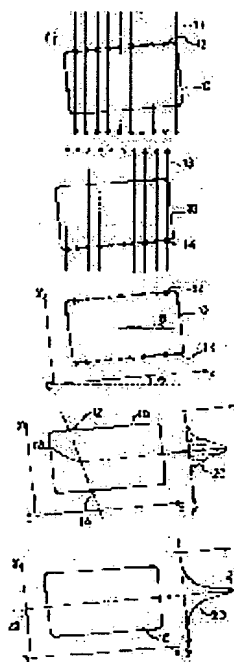
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(54) COMPONENT DETECTION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a component detection method in which the center line can be detected precisely by finding the edge point of every side at a component, a two-dimensional coordinate axis in which the deflection angle of the component is made 0° , projecting and adding the position of the middle point of an edge on the coordinate axis to generate a histogram, and setting line which is parallel to an opposite side passing the peak position of the histogram as the center line of the component.

SOLUTION: A component 10 is scanned by a scanning line 11, and an edge point 12 is detected. In the same manner, an edge point 14 on the opposite side is detected by a scanning line 13. Then, by using the deflection angle θ of a component, which is found in advance by an elliptical approximation method, projection coordinate axes (x), (y) are set in such a way that the deflection angle θ of the component, which is found newly becomes 0° . In addition, the middle point 18 between two arbitrary points is found from the edge points 12, 14 on both sides, its position is projected on the y-axis in a direction at right angles to both sides of the coordinate axes (x), (y), and the position is added to a histogram. This operation is repeated, positions of Y-coordinates are added, and a histogram 20 is generated on the y-axis. The peak 21 of the histogram 20 is detected, and the center line 22 of the component 10, which is parallel to the x-axis is detected on the basis of it.



LEGAL STATUS

[Date of request for examination]

05.09.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number] 3366497

[Date of registration] 01.11.2002

[Number of appeal against examiner's decision
of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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